

LISTING OF CLAIMS

1 1. (Amended) A composite part having an integrated flow channel, comprising:
2 an elongated foam core;
3 ~~a flow channel media attached to said elongated foam core and extending along~~
4 ~~a first elongated side thereof, said flow channel media defining interstices for the~~
5 ~~passage of resin;~~
6 at least one fabric layer secured to said elongated foam core, and extending
7 along a first elongated side thereof, said fabric layer enclosing an elongated channel
8 between said first elongated side of said foam core and said fabric layer; and enclosing
9 ~~said first elongated side of said foam core, including said flow channel media, to define~~
10 ~~a resin flow path along said first elongated side~~
11 a flow channel media disposed in said elongated channel, said flow channel
12 media having less resistance to a flow of resin as compared to said fabric layer;
13 whereby resin introduced within said elongated channel under pressure will
14 substantially flow along a length of said elongated side.

1 2. (Original) The composite part according to claim 1 wherein said fabric layer further
2 encloses at least a second and third elongated side of said foam core, each of said
3 second and third elongated sides adjoining said first elongated side.

1 3. (Amended) The composite part according to claim 42, further comprising fabric
2 tab portions extending from said second and third elongated sides.

1 4. (Original) The composite part according to claim 1 further comprising a second flow
2 channel media attached to said elongated foam core and extending along a second
3 elongated side thereof, said flow channel media defining interstices for the passage of
4 resin.

1 5. (Original) The composite part according to claim 4 wherein said fabric layer
2 encloses said second elongated side of said foam core, including said flow channel
3 media, to define a second resin flow path along said second elongated side.

1 6. (Original) The composite part according to claim 5 wherein said second elongated
2 side is opposed from said first elongated side.

1 7. (Original) The composite part according to claim 1 wherein said flow channel media
2 is bounded by a second fabric layer interposed between said foam core and said flow
3 channel media.

1 8. (Amended) The composite part according to claim ~~4~~7, wherein said second
2 fabric layer is a substantially closed fabric for preventing a passage through said second
3 fabric of said foam core into said flow channel media.

1 9. (Original) The composite part according to claim 1 wherein said flow channel
2 medium is a three-dimensional plastic matrix.

1 10. (Original) The composite part according to claim 9 where said flow channel medium
2 is between about 50 to 90% open space.

1 11. - 18. (Previously Canceled Without Prejudice)

1 19. (New) The composite part according to claim 1, wherein said fabric layer has a
2 porosity that selectively permits a predetermined amount of resin to escape from said
3 flow channel along said elongated length.

1 20. (New) The composite part according to claim 1, wherein said elongated channel
2 is disposed exclusively along said first elongated side.

1 21. (New) The composite part according to claim 1, wherein said flow channel media
2 is disposed exclusively along said first elongated side.

1 22. (New) A composite part having an integrated flow channel, comprising:
2 an elongated foam core;
3 a flow channel media attached to said elongated foam core and extending along
4 a first elongated side thereof, said flow channel media defining interstices for the
5 passage of resin;

6 at least one fabric layer secured to said elongated foam core, and enclosing said
7 first elongated side of said foam core, including said flow channel media, to define a
8 resin flow path along said first elongated side; and

9 wherein said flow channel media is bounded by a second fabric layer interposed
10 between said foam core and said flow channel media.

1 23. (New) A composite part having an integrated flow channel, comprising:

2 an elongated foam core;

3 at least one fabric layer secured to said elongated foam core and extending
4 along a first elongated side thereof, said fabric layer at least partially enclosing an
5 elongated channel between said first elongated side of said foam core and said fabric
6 layer;

7 a flow channel media disposed in said elongated channel, said flow channel
8 media having less resistance to a flow of resin as compared to said fabric layer, and

9 wherein said flow channel media is bounded by a second fabric layer interposed
10 between said foam core and said flow channel media.

1 24. (New) The composite part according to claim 23, wherein said flow channel
2 media has less resistance to a flow of resin as compared to said second fabric layer.

1 25. (New) The composite part according to claim 23, wherein said flow channel
2 medium is a three-dimensional plastic matrix of fibers joined at the intersections thereof.

1 26. (New) The composite part according to claim 23, wherein said flow channel
2 medium comprised between about 50% to 90% open space.

1 27. (New) The composite part according to claim 23, wherein said fabric layer has a
2 porosity that selectively permits a predetermined amount of resin to escape from said
3 flow channel along said elongated length.